

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P572145

Luminaire Tested: 24ID-35-L840-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-35-L840-DBD
Description: 3500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 4000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

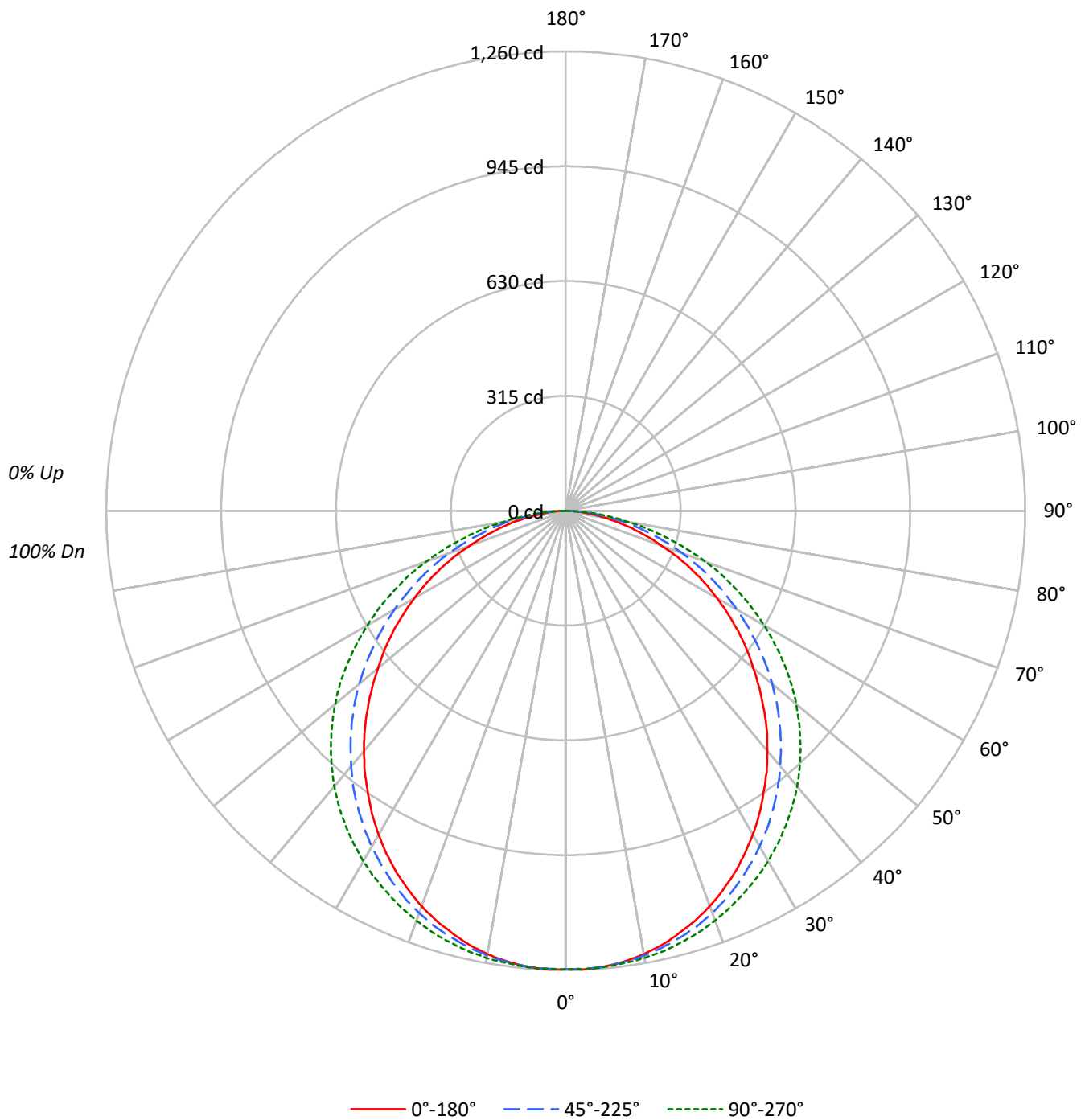
Lumens per Lamp: N/A
Luminaire Lumens: 3591.0 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 30.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	54		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		58	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1694	1694	1694
5°	1689	1682	1685
10°	1675	1667	1678
15°	1653	1649	1670
20°	1629	1629	1663
25°	1597	1603	1654
30°	1557	1572	1646
35°	1509	1537	1635
40°	1460	1497	1622
45°	1403	1451	1600
50°	1339	1400	1572
55°	1280	1335	1532
60°	1201	1264	1477
65°	1112	1181	1403
70°	985	1076	1297
75°	851	926	1139
80°	673	753	891
85°	464	466	535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1600 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	3.3
10°-20°	342.4	9.5
20°-30°	519.0	14.5
30°-40°	624.3	17.4
40°-50°	644.5	17.9
50°-60°	579.1	16.1
60°-70°	440.9	12.3
70°-80°	253.2	7.1
80°-90°	68.3	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	980.7	27.3
0°-40°	1605.0	44.7
0°-60°	2828.6	78.8
0°-90°	3591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3591.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1255	1256	1255	1254	1256	119
15°	1200	1206	1212	1220	1226	339
25°	1096	1107	1124	1148	1157	505
35°	946	962	994	1037	1053	592
45°	768	786	830	887	911	593
55°	578	593	641	703	731	516
65°	381	398	441	493	520	376
75°	189	207	237	271	287	201
85°	44	51	61	64	68	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.7	1258.7	1258.7	1258.7	1258.7
2.5°	1259.9	1259.9	1257.5	1256.4	1258.7
5°	1255.2	1256.4	1255.2	1254.0	1256.4
7.5°	1247.0	1248.2	1248.2	1249.4	1251.7
10°	1235.3	1237.7	1238.9	1242.4	1245.9
12.5°	1220.2	1222.5	1227.2	1233.0	1237.7
15°	1200.3	1206.2	1212.0	1220.2	1226.0
17.5°	1179.3	1186.3	1195.6	1206.2	1213.2
20°	1154.8	1163.0	1174.6	1188.6	1196.8
22.5°	1126.8	1137.3	1151.3	1168.8	1178.1
25°	1096.4	1106.9	1124.4	1147.8	1157.1
27.5°	1062.5	1074.2	1095.2	1122.1	1134.9
30°	1026.3	1039.2	1063.7	1096.4	1110.4
32.5°	987.8	1001.8	1029.8	1067.2	1082.4
35°	945.8	962.1	993.6	1036.9	1053.2
37.5°	904.9	921.3	956.3	1003.0	1021.7
40°	860.5	878.1	915.4	966.8	987.8
42.5°	816.2	831.3	873.4	928.3	950.4
45°	768.3	785.8	830.2	887.4	910.7
47.5°	720.4	739.1	785.8	844.2	868.7
50°	671.4	691.2	739.1	798.7	825.5
52.5°	625.8	642.2	691.2	752.0	780.0
55°	578.0	593.2	641.0	702.9	730.9
57.5°	527.8	545.3	593.2	651.5	679.6
60°	478.7	496.2	541.8	600.2	628.2
62.5°	430.9	447.2	491.6	547.6	575.6
65°	380.6	398.2	441.4	492.7	519.6
67.5°	331.6	350.3	391.2	437.9	465.9
70°	279.1	300.1	339.8	383.0	405.2
72.5°	232.4	252.2	288.4	326.9	348.0
75°	189.2	206.7	237.0	270.9	287.2
77.5°	146.0	164.6	191.5	217.2	230.0
80°	107.4	124.9	146.0	163.5	169.3
82.5°	73.6	86.4	101.6	110.9	119.1
85°	44.4	51.4	60.7	64.2	67.7
87.5°	18.7	21.0	24.5	23.4	24.5
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.44	14.08	12.80	14.39	14.71	13.90	15.54	14.27	15.86	16.17
	3H	14.00	15.49	14.38	15.82	16.18	15.80	17.29	16.18	17.61	17.97
	4H	14.52	15.92	14.92	16.27	16.64	16.50	17.90	16.90	18.25	18.63
	6H	14.85	16.15	15.26	16.51	16.90	17.00	18.30	17.41	18.66	19.05
	8H	14.93	16.17	15.36	16.56	16.96	17.14	18.38	17.57	18.77	19.17
	12H	14.98	16.16	15.40	16.55	16.97	17.22	18.41	17.65	18.79	19.22
4H	2H	13.19	14.59	13.59	14.94	15.31	14.36	15.76	14.76	16.11	16.48
	3H	14.96	16.13	15.37	16.53	16.93	16.47	17.65	16.88	18.04	18.44
	4H	15.58	16.64	16.01	17.06	17.49	17.31	18.37	17.74	18.78	19.22
	6H	16.01	16.94	16.47	17.38	17.84	17.93	18.86	18.38	19.30	19.76
	8H	16.13	17.00	16.59	17.44	17.91	18.12	18.99	18.58	19.43	19.90
	12H	16.20	16.98	16.68	17.45	17.92	18.23	19.02	18.71	19.49	19.96
8H	4H	15.96	16.83	16.42	17.27	17.74	17.50	18.37	17.96	18.81	19.28
	6H	16.50	17.23	16.99	17.71	18.19	18.23	18.95	18.72	19.44	19.91
	8H	16.67	17.32	17.18	17.82	18.31	18.47	19.12	18.98	19.63	20.11
	12H	16.78	17.36	17.29	17.85	18.41	18.64	19.22	19.15	19.71	20.27
12H	4H	16.01	16.79	16.49	17.27	17.74	17.51	18.29	17.99	18.77	19.24
	6H	16.57	17.22	17.08	17.73	18.22	18.24	18.89	18.75	19.40	19.88
	8H	16.79	17.37	17.30	17.86	18.42	18.53	19.11	19.04	19.60	20.16